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Declassified in Part - Sanitized Copy Approved for Release @ 50-Yr 2013/07/11 : CIA-RDP82-00046R000400440001-8 SECRET REPORT NO. 50X1 COUNTRY Austria (Soviet Zone) DATE DISTR. 10 Feb. 1955 SUBJECT Radar Posts of the 135th Separate Air NO. OF PAGES 19 Warning Battalion 50X1 Other Radar Locations in Austria DATE OF INFORMATION REFERENCES: 50X1 PLACE ACQUIRED 50X1 50X1 THIS IS UNEVALUATED INFORMATION Radar Posts of the 135th Separate Air Warning Battalion The 135th Separate Air Warning Battalion operated three radar posts in Austria; one at Hellmonsoedt (N 48-26, E 14-18) which carried the number 401 or 402, one at Stegersbach (N 47-10, E 16-10) which carried the number 401 or 402, and one at St. Poelten (N 48-12, E 15-38),1 Hellmonsoedt 2. 50X1 50X1 a soldier who had just arrived in Blumau to work in the Technical Platoon at 135th Separate Air Warning Battalion Head-50X1 quarters. This soldier had previously been stationed at the 50X1 battalion's radar post at Hellmonstoedt and showed 50X1 graph, taken in 1952, which pictured a group of Soviet troops around a radar set which was mounted on a GAZ-63 truck. The radar type a photo-50X1 shown in the photograph was familiar This same soldier told that in May 1952 personnel who manned the Hellmonsoedt 50X1 50X1 radar post entrained for Moscow and returned with a Pereskop (Token) 50X1 radar set. since it was customary to transport technical equipment by rail, this Pereskop was brought to Austria by rail rather than by truck. Pereskop Radar at Hellmonsoedt Post a radar repairman from the maintenance 50X1 team (KHAS) of Headquarters, 135th Separate Air Warning Battalion in Blumau that the Pereskop radar set at Hellmonsoedt had six lobes 50X1

should the Pereskop operator doubt that a target in his scope

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and a radius of action of 400 km.

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is moving, he can cut out the lobes which are focused on the stationary target and apply his other lobes until he locates the target. The operator himself must determine whether or not the target is moving. Source had never heard any rumors or conversations about provisions for any radar to lock onto a moving target and to ignore relatively stationary ones.

Stegersbach

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never visited the radar post at Stegersbach but learned about various aspects of it from hearsay. According to rumor, a radar unit had been posted at Landsee (N 47-33, E 16-20). This unit had a mobile Dumbo radar set until May 1954, at which time a Pereskop was moved in and the Dumbo set was given to an anti-aircraft artillery unit. (See page 6 for sketch of Dumbo radar.) At the time the Pereskop radar was brought to Landsee, it was decided that there was too much ground clutter at this location and the unit was moved to Blumau and then posted at Stegersbach.

Pereskop Radar Destined for Stegersbach

- radar which eventually was located at Stegersbach. This Pereskop was brought from Hungary to the 135th Air Warning

 50X1 Battalion in Blumau. The Pereskop booth, uncovered, was loaded on one flat car, the Pereskops antennae on another. Four or five pieces of antenna were bolted on a special two-wheel trailer, lying on edge side by side and covered with tarpaulin. (See pages 7 and 8 for sketch of the trailer and antennae.) The booth was pulled off the flatcar by a tractor (tyagach). The two-wheel trailer with the antennae was pushed off by hand. The tractor was hitched to the front of the booth and the special two-wheel trailer was hooked to the back. This radar set was sent first to Landsee and later to Stegersbach. (See Paragraph 4 above.)
 - 6. The Pereskop radar revolving booth was normally pulled by a ZIS-151 truck, and the two-wheel trailer was hooked to the back of the booth. Maximum speed was 60 km. per hour; average speed was 40 km. per hour. When this Pereskop set was moved to Stegersbach from Blumau, it was accompanied by the following vehicles:
 - a. Booth pulled by ZIS-151 truck (See pages 9 and 10.)
 - b. Trailer with antennae, hooked behind booth. (See pages 7 and 9.)
 - c. Two ZIS-151 trucks with a metal cabin, windows on the left side, and door in the rear.
 - d. One other 5-ton ZIS-151 truck with a large metal booth and another truck which resembled a U.S. 22-ton truck. (See pages 13 and 14.)

It was general knowledge that one of the three ZIS-151 trucks with metal booths had a diesel motor generator. One truck had a control booth where the radar operators sat. no information on the number of personnel nor information on the use of the other trucks.

A radar repairman told that noone sat in the revolving booth but that personnel sat in another booth off to the side.

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Operation of Pereskop Radar At Stegersbach

skop operator from Stegersbach who had recently been transferred into unit at Blumau. This operator's Pereskop worked 12 hours daily; it was replaced for the following 12 hours by another set which the operator could not identify. To relieve his boredom while on guard duty, he would climb into the Pereskop booth and rotate at six rpm.

8. The Pereskop had three scopes, one directly above the other. The first or top one was for area scan (ekran krupnogo obzora), the second for sector scan, and the third for height finding. Ordinarily the Pereskop is used on area scan. At the appearance of a target, the radar is switched from area to sector scan. To determine height, the sector scan is switched off and the height finder or bottom scope is turned on.

50X1 See page 15 for sketch of the picture.) The operator said that he was highly pleased with the overall operation and performance of the Pereskop. It was very effective so long as the aircraft made no sudden changes in course and/or altitude; such changes made tracking very difficult if not impossible.

The Pereskop radar at Stegersbach had five lobes and a radius of of 400 km; it covered parts of West Germany and Italy. The operator told that he and other operators considered it a much better set than the knife-rest radar, a type used at St. Poelten. (See

radar sets in the 135th Separate Air Warning Battalion: the one at Hellmonsoedt and the one at Stegersbach.

St. Poelten

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the 135th Separate Air Warning Battalion,
was stationed at the battalion's radar post at St. Poelten

(See page 17 for pinpoint of approximate
location of this post.) This radar post consisted of two officers
and 25 soldiers, 19 of whom were either radio or radar operators,
five of whom were drivers, and one of whom was a cook. The drivers
had the additional duty of taking care of the two unit generators,
one of which was in use and one in reserve. This radar post was
equipped with a knife-rest radar.5 (See page 16 for

50X1 Knife-Rest Radar at St. Poelten

The knife-rest radar at St. Poelten emitted two lobes to provide greater coverage in locating a target. It had a range of 120 km and could detect any window thrown out by aircraft, but it was very difficult for the operator to differentiate between moving and non-moving objects. This radar was the object of much complaint on the part of the radar operators.

13. Each knife-rest radar was accompanied by two ZIS trucks with booths. One booth contained the radar scopes and control instruments; the other contained two 2-cylinder, gasoline driven generators, type L-3/6. The generators were ordinarily used to charge the batteries which furnished power for the radar antennae. When a target was

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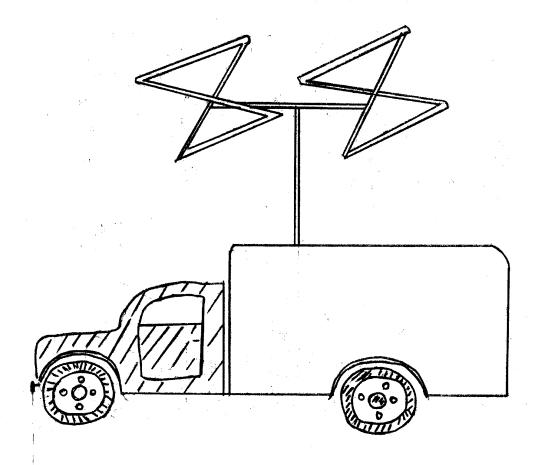
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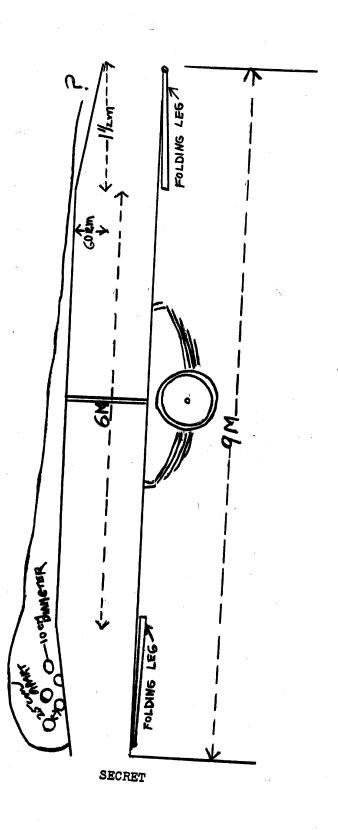
Memory Sketch of Dumbo Mobile Radar Unit at Hellmonsoedt. (See Para. 4 of text.)



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Memory Sketch of Trailer and Pereskop Antenna (See Para. 5 of text)

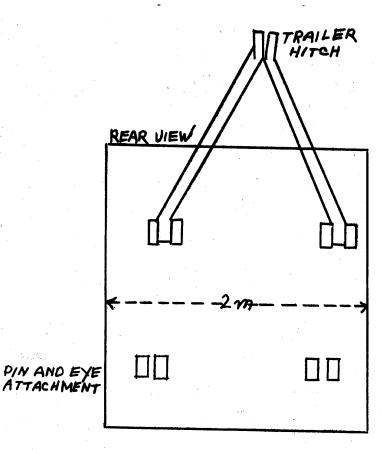


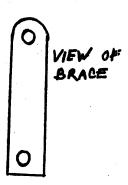
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Antenna for the Pereskop Radar (See Para. 5 of text)

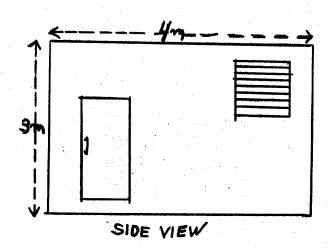


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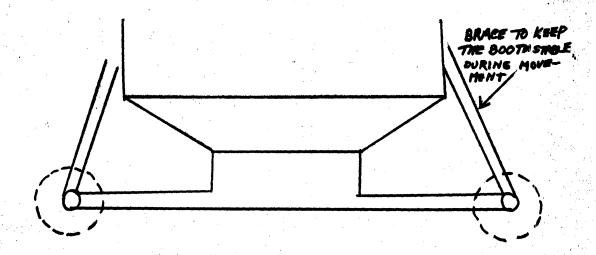
Booth which is pulled by truck. (See Para. 6 of text.)



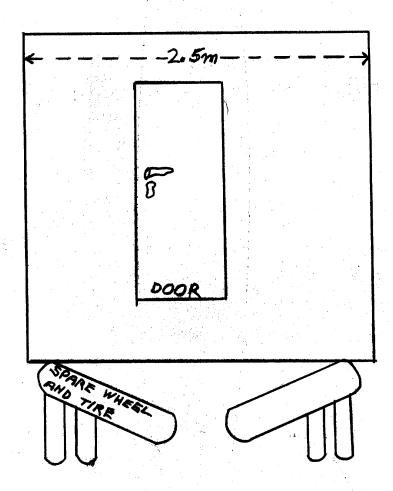
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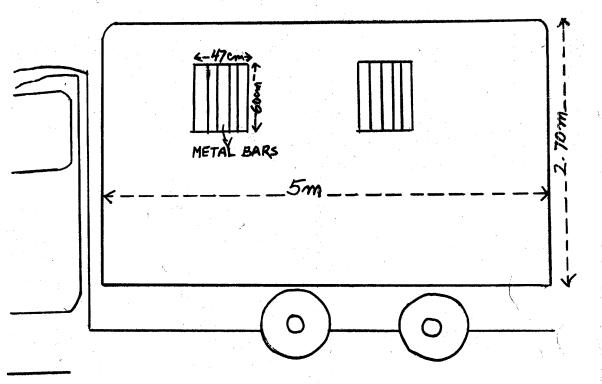
Booth Braced for Travel (See Para. 6 of text)



Rear View of Booth on ZIS-151 Truck (See Para. 6 of text)



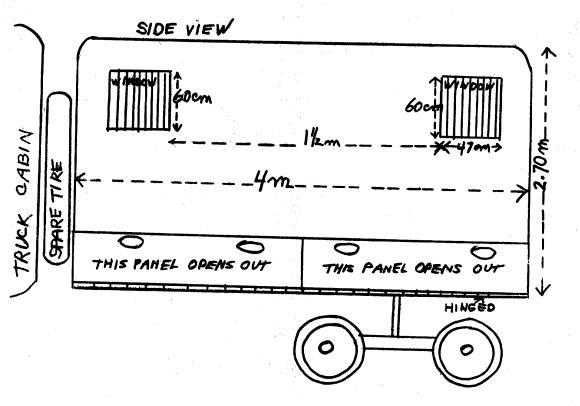
Side View of Left Side of Vehicle (right side identical?) (See Para. 6 of text)



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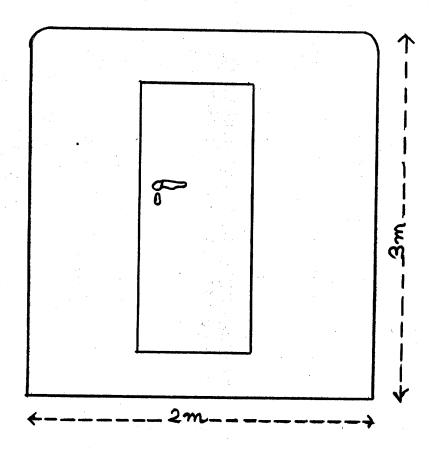
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ZIS-151 Truck with Large Metal Booth (See Para. 6 of text)



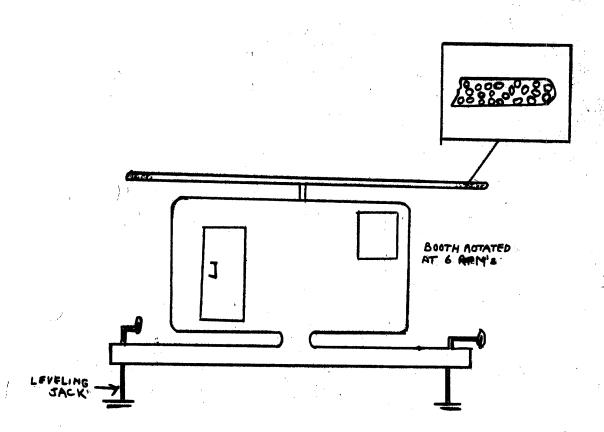
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Metallic Booth (See Para. 6 of text)



When door opens in the booth, the light in the booth goes out.

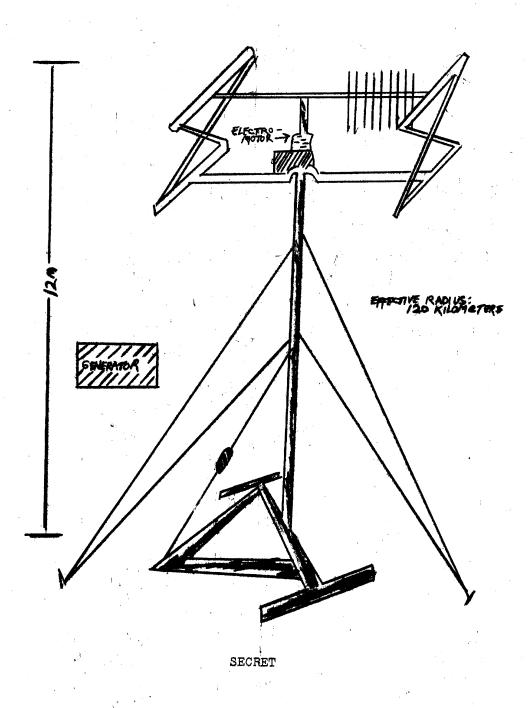
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Pereskop (Token) Radar (See Para. 8 of text) Effective Radius: 400 kilometers

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Memory Sketch of Knife-Rest Radar at St. Poelten (See Paragraphs 9 and 11)



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Overlay on AMS-Series M-671 Sheet X-10, Wiener Neustadt Pinpointing approximate location of a knife-rest radar post near St. Poelten

Approx. location of Knife-Rest Radar near St. Poelten, Austria

(See Para. 11 of text)

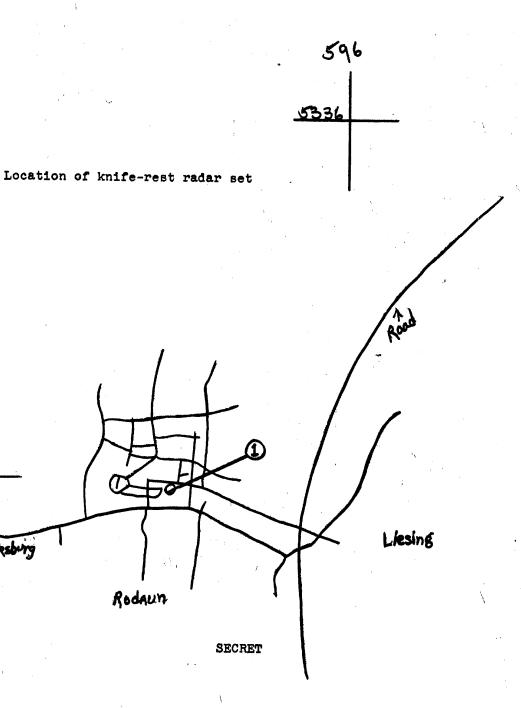
Overlay of sheet X-10/4 NE, GSGS 4528, Austria, 1:25,000, pinpoint location of knife-rest radar (See Para. 18 of text)

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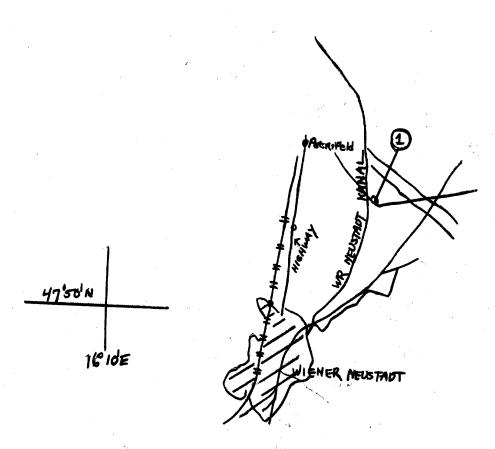
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Overlay of sheet X-10, AMS-M671, GSGS 4416, 1:100,000, Austria. Pinpoint location of knife-rest radar station near Wiener Neustadt as shown on page 16. (See Para. 19 of text)



Overlay of sheet X-10, AMS-M671, GSGS 4416, 1:100,000, Austria. Pinpoint location of knife-rest radar station near Wiener Neustadt as shown on page 16. (See Para. 19 of text)

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